

Fig. 1

10

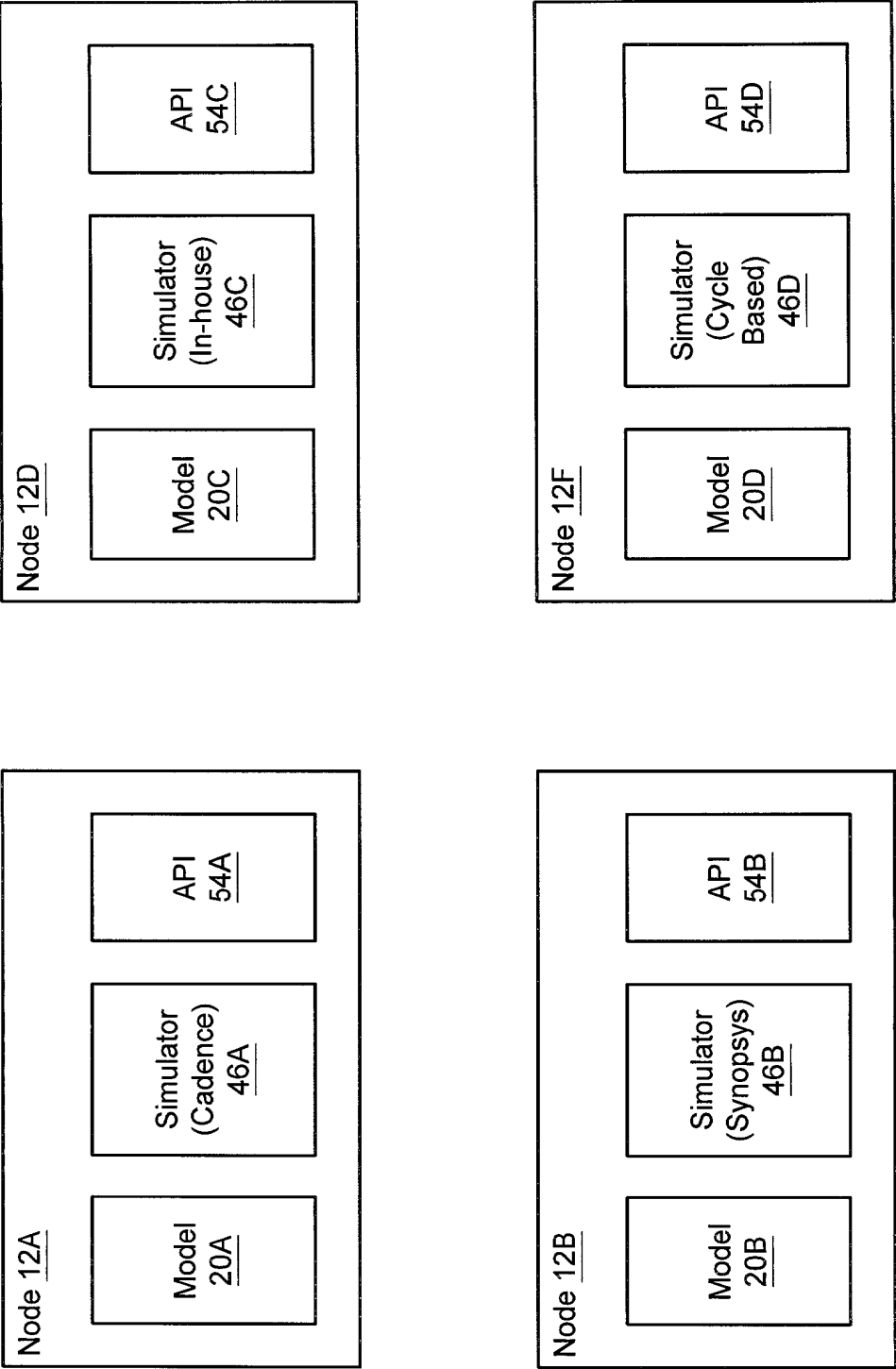


Fig. 2

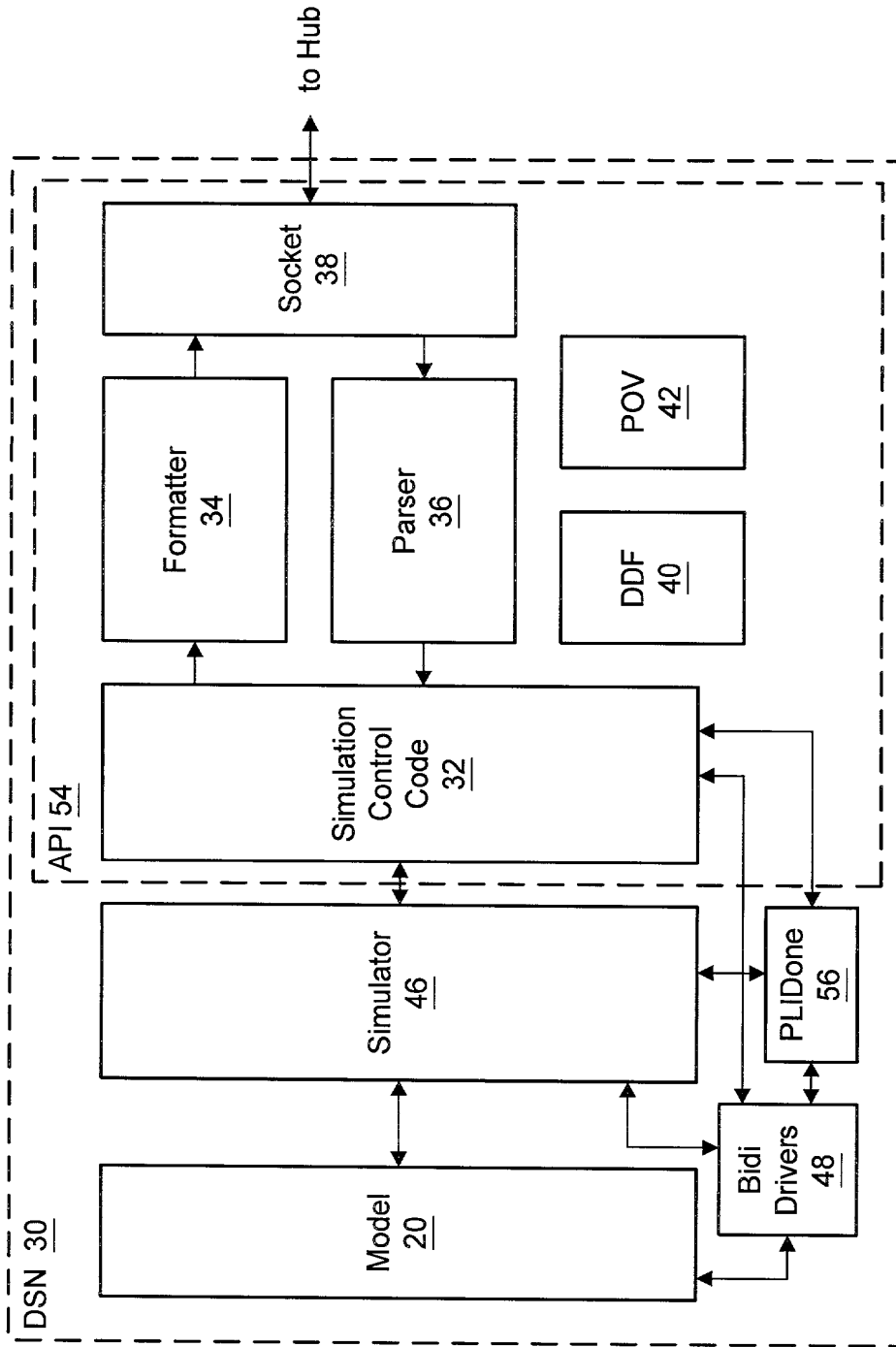


Fig. 3

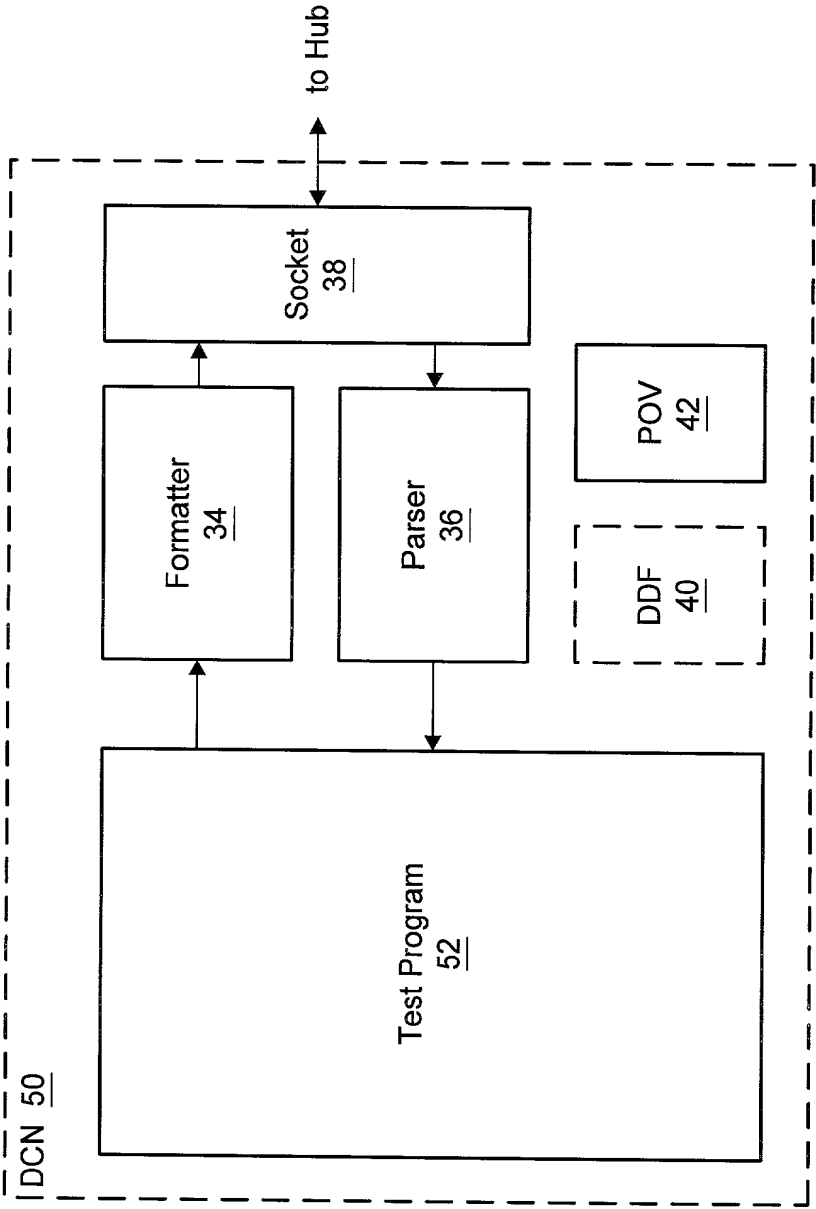
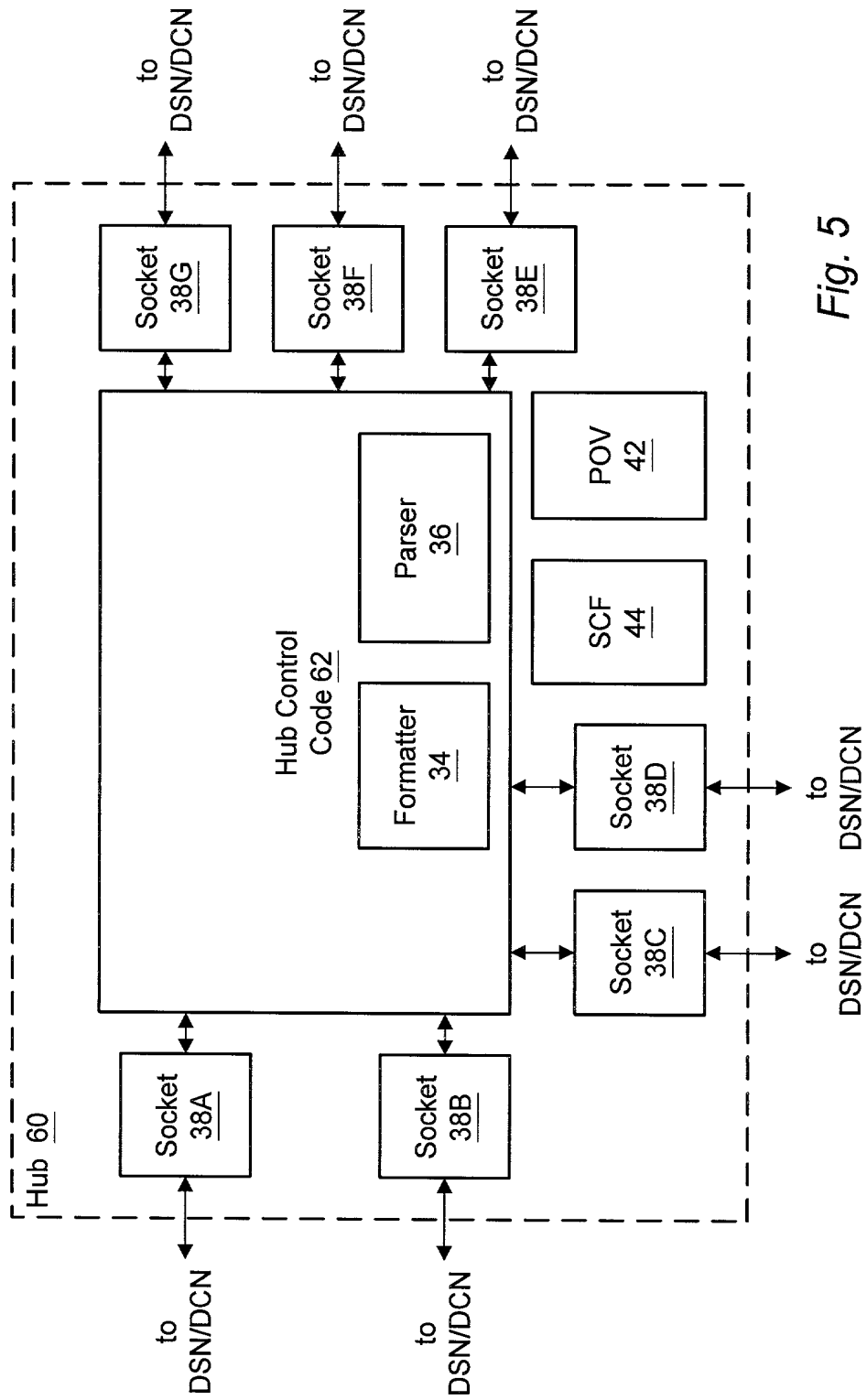
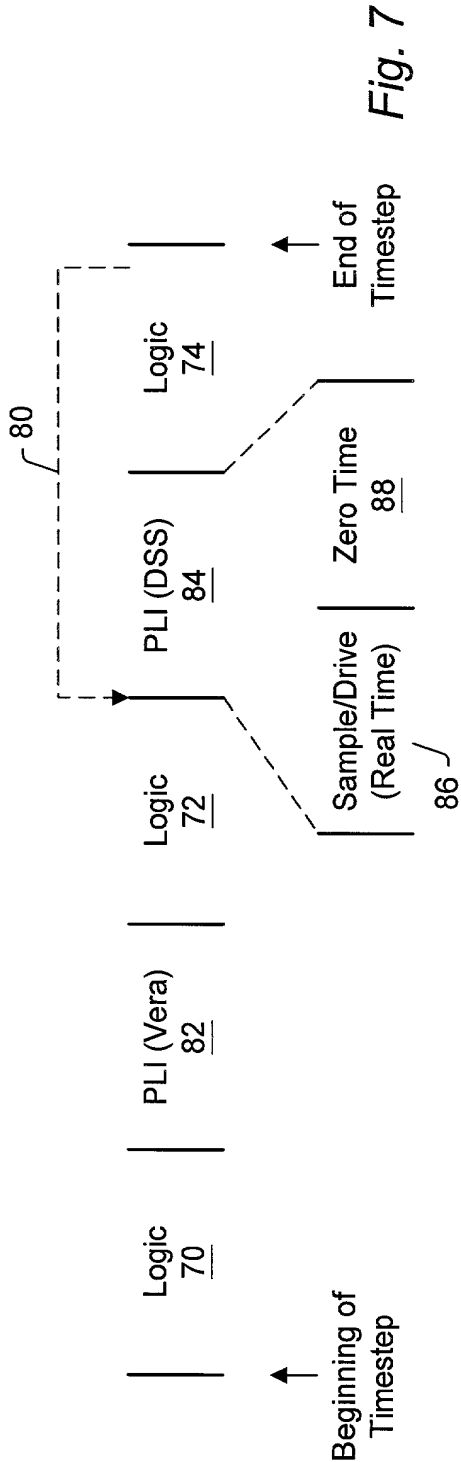
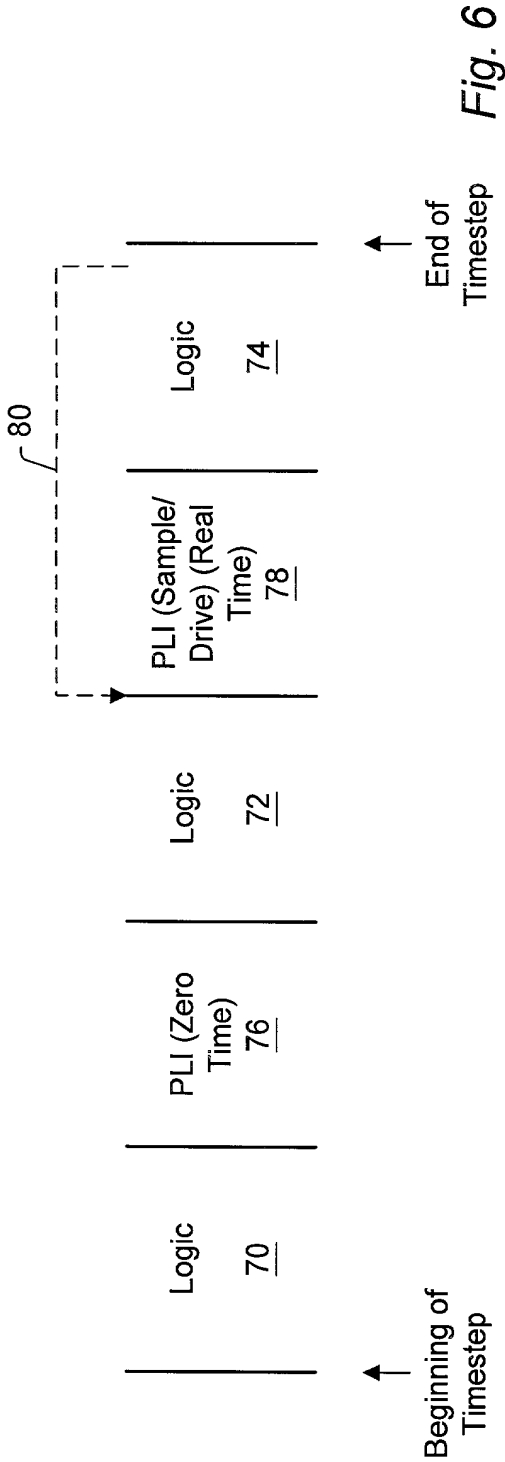
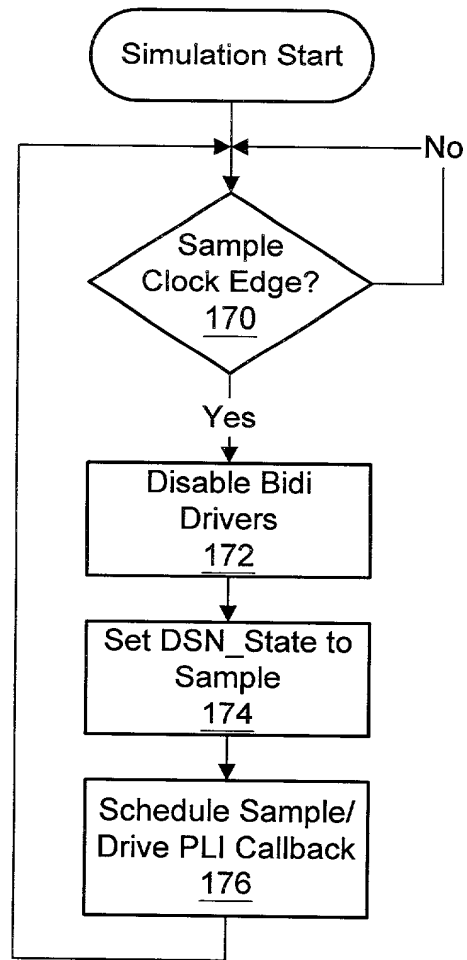


Fig. 4





*Fig. 8*

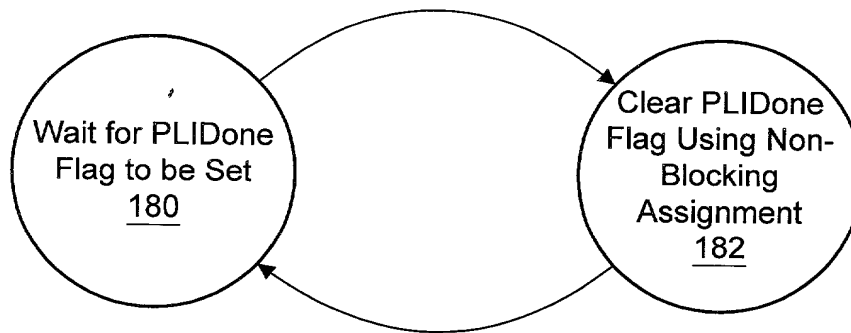


Fig. 9

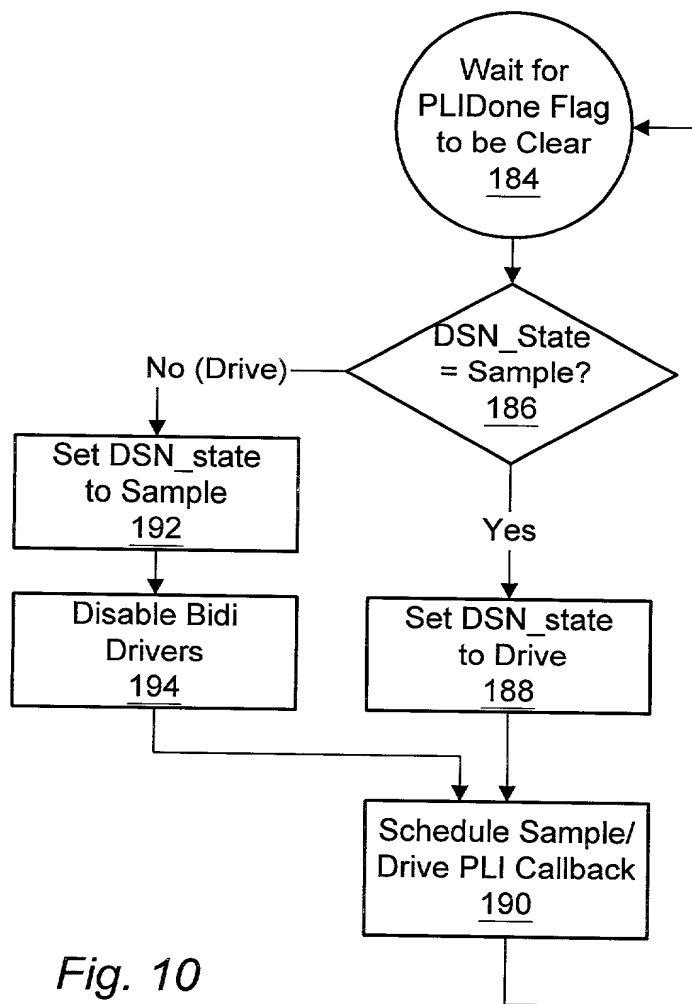


Fig. 10

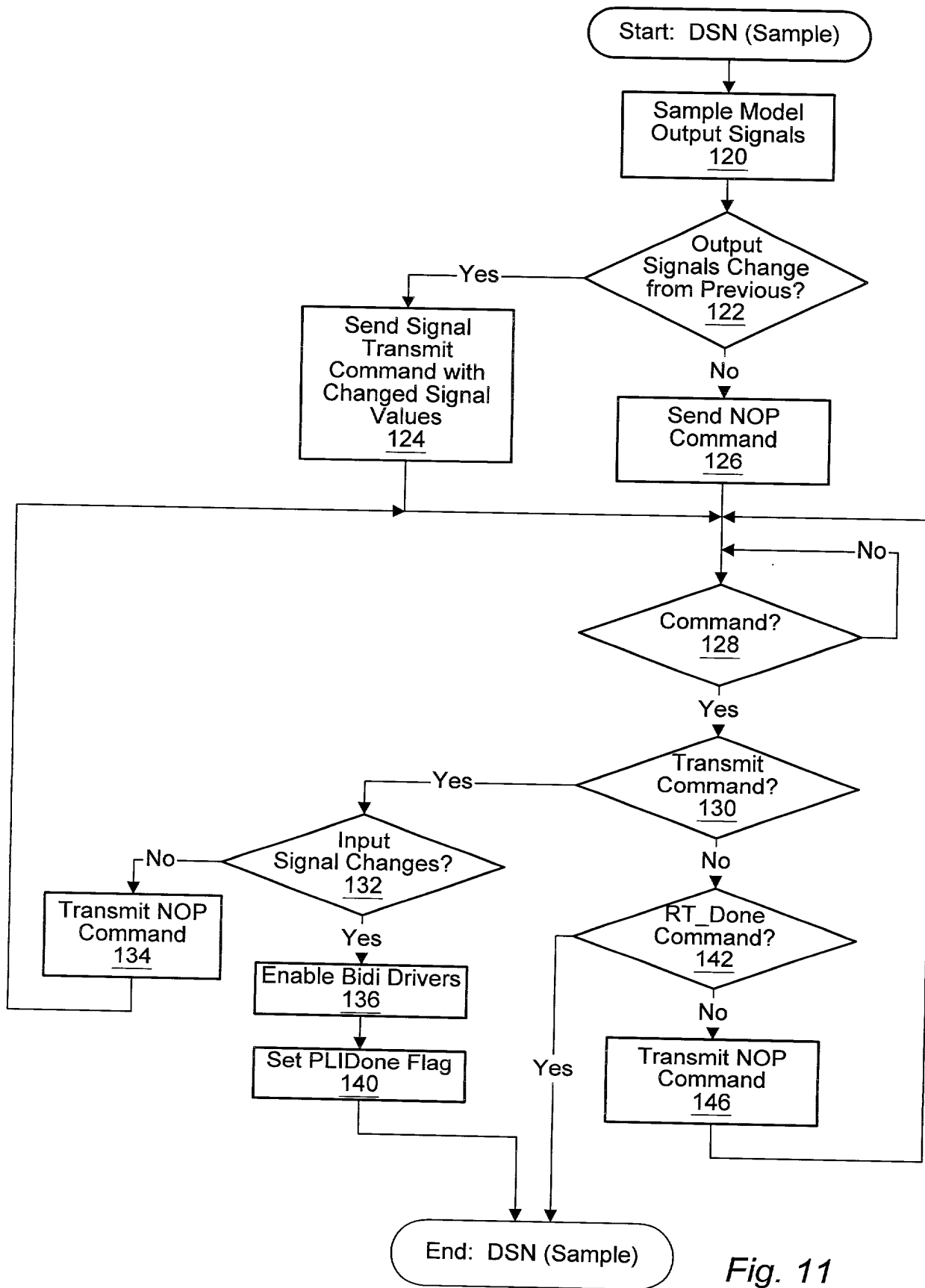


Fig. 11

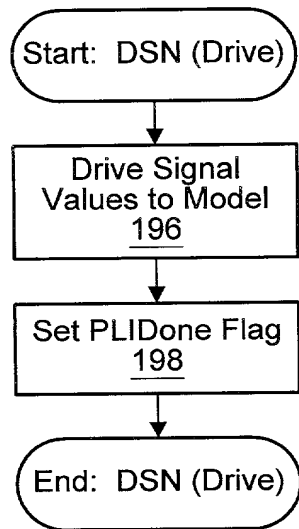


Fig. 12

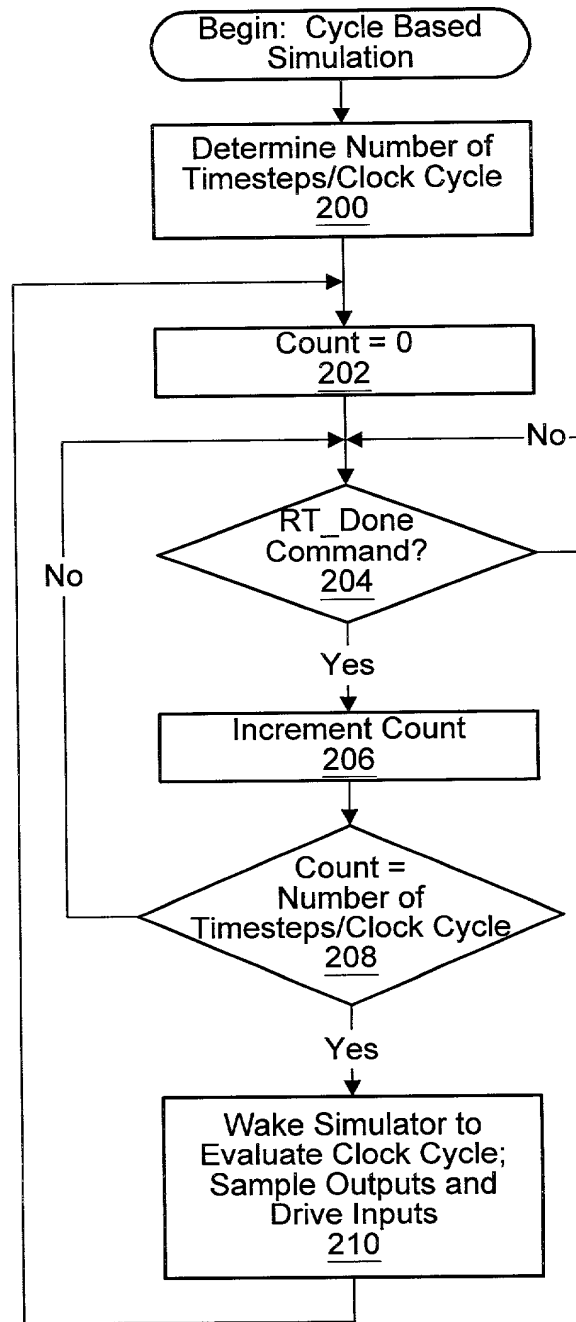


Fig. 13

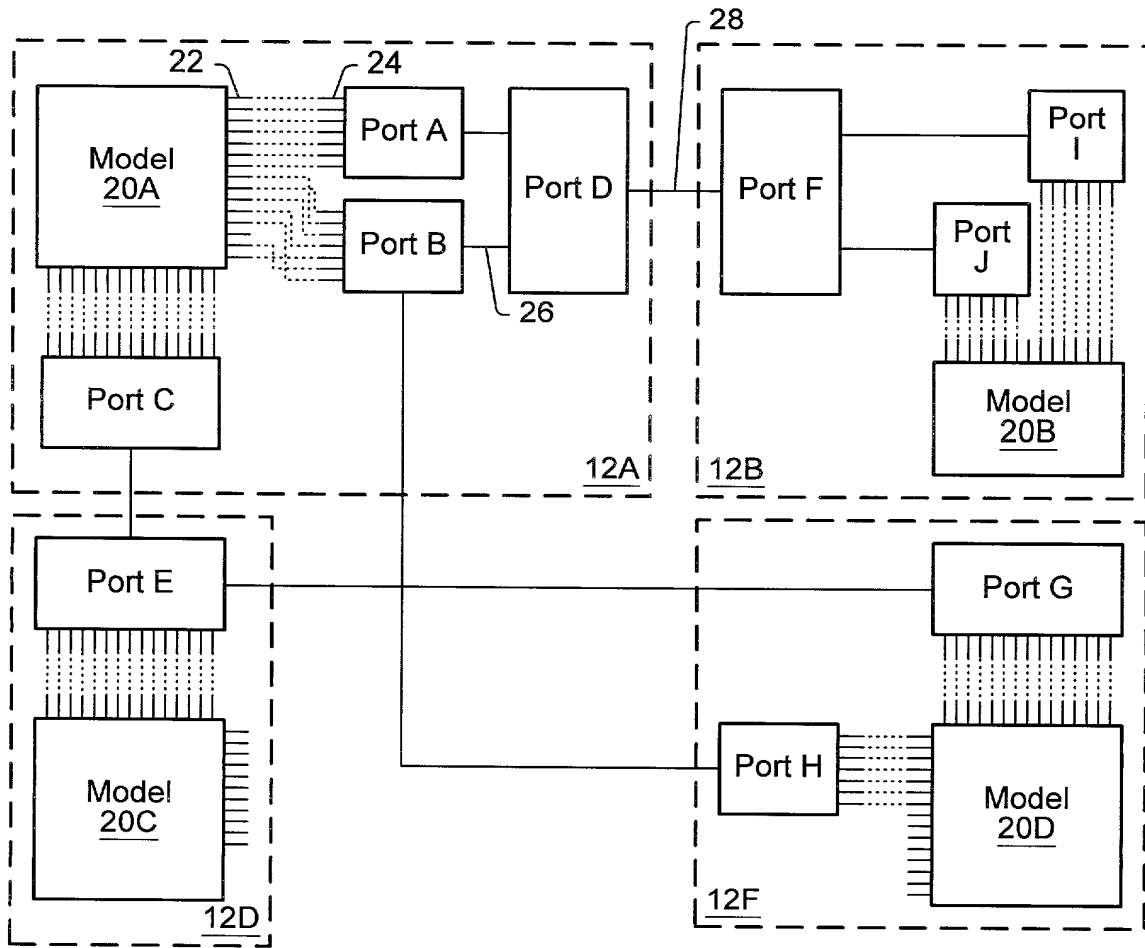


Fig. 14

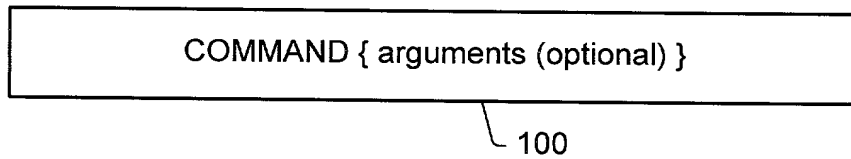


Fig. 15

<u>Command</u>	<u>Arguments</u>
POV	port definitions
SCF	model instances and routing
DDF	logical signal to physical signal mapping
TRANSMIT	source model instance, chip names, port names, signalnames, values, and strengths
NOP	source model instance
RT_DONE	source model instance
ZT_DONE	source model instance
ZT_FINISH	source model instance
FINISH	source model instance
USER	source model instance, user message
ERROR	source model instance, error message
HOTPLUG	source model instance, destination model instance
HOTPULL	source model instance, destination model instance
STOP	source model instance

Fig. 16

```

pov : POV '{' portdefs '}'
      ;
portdefs : | pordefs porttype '{' port_member more_members '}' ';'
      ;
porttype : PORTWORD BASENAME
      ;
port_member : SIGNALWORD NAME ';' | BASENAME NAME ';'
      ;
more_members : | more_members port_member
      ;

```

Fig. 17

```

scf : SCF '{' scf_description '}'
      ;
scf_description : | model_instances routing
      ;
model_instances : one_instance more_instances
      ;
one_instance : BASENAME NAME ';'
      ;
more_instances : | more_instances one_instance
      ;
routing : | routing routing_exp
      ;
routing_exp : SCOPENAME1 '->' SCOPENAME1 ';'
      ;

```

Fig. 18

```

ddf : DDF '{ models }'
;
models : | one_model more_models ';'
;
one_model : BASENAME '{ log_phys }' ';'
;
more_models : | one model more_models
;
log_phys : | logical physical
;
logical : LOGICAL '{ log_defs }' ';'
;
log_defs : | BASENAME NAME ';'
;
physical : PHYSICAL '{ phys_defs }' ';'
;
phys_defs : | one_to_one | many_to_one | one_to_many
;
one_to_one : SIGNALWORD signalname '{ signalparts }' ';'
| one_to_one SIGNALWORD signalname '{ signalparts }' ';'
;
signalname : BITWIDTH BASENAME | BASENAME
;
signalparts : one_signalpart more_signalparts
;
one_signalpart : NAME '=' SCOPENAME2 ';'
;
more_signalparts : | more_signalparts one_signalpart
;
many_to_one : FORALL SIGNALWORD '(' sign_names ')' '{ logicalname }' ';'
;
sign_names : signalname | sign_names ',' signalname
;
logicalname : SCOPENAME2 ';'
;
one_to_many : FOR SIGNALWORD '(' signalname ')' '{ signalparts }' ';'
;

```

Fig. 19

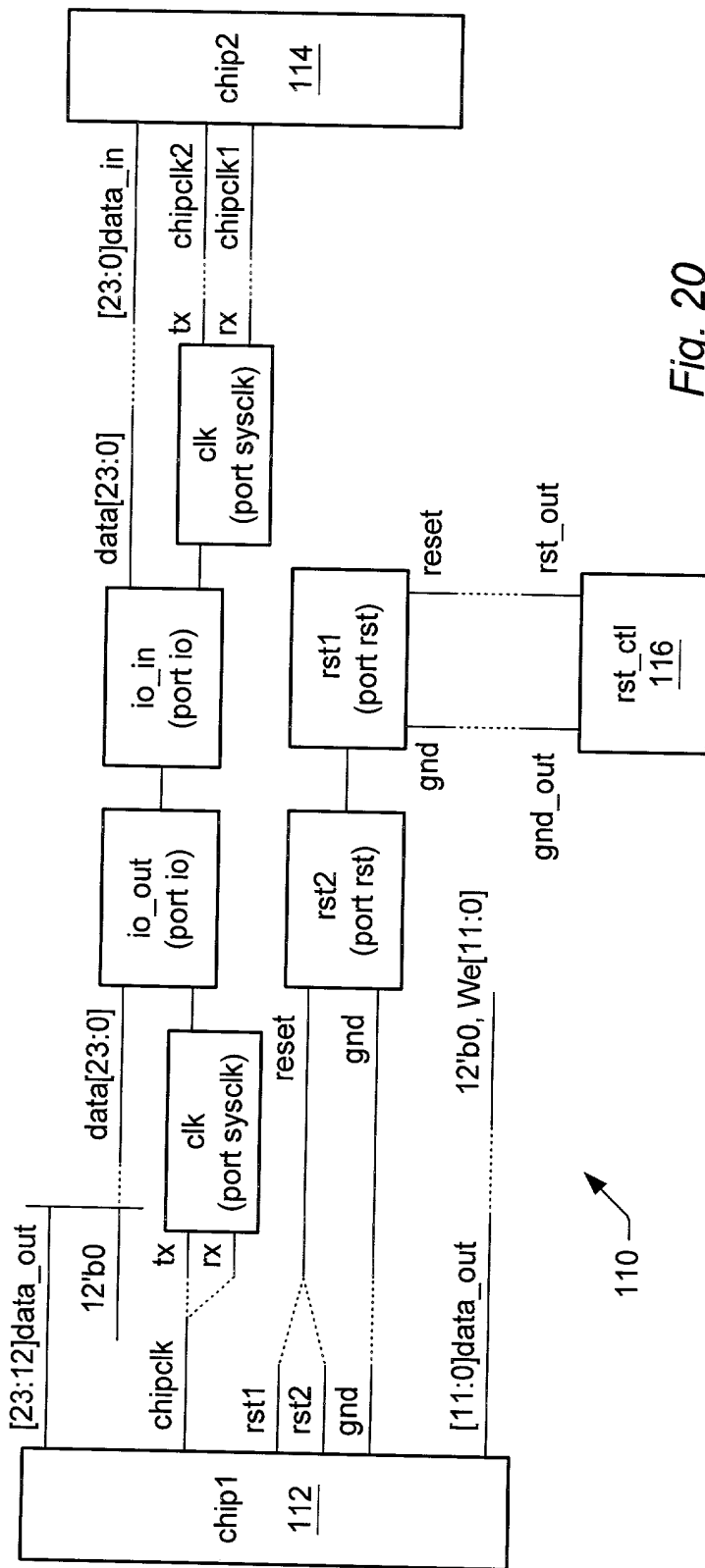


Fig. 20

Fig. 21

Fig. 22

Fig. 23


```

DDF {
  chip2 {
    logical {
      io io_in;
    };
    physical {
      signal [23:0] data_in {
        data_in[23:0] = io_in.data[23:0];
      };
      signal (chipclk1) {
        chipclk1 = io_in.clk.rx;
      };
      signal (chipclk2) {
        chipclk2 = io_in.clk.tx;
      };
    };
  };
}

```

Fig. 24

```

DDF {
  rst_ctl {
    logical {
      rst rst1;
    };
    physical {
      signal rst_out { rst_out = rst1.reset; };
      signal gnd_out { gnd_out = rst1.gnd; };
    };
  };
}

```

Fig. 25

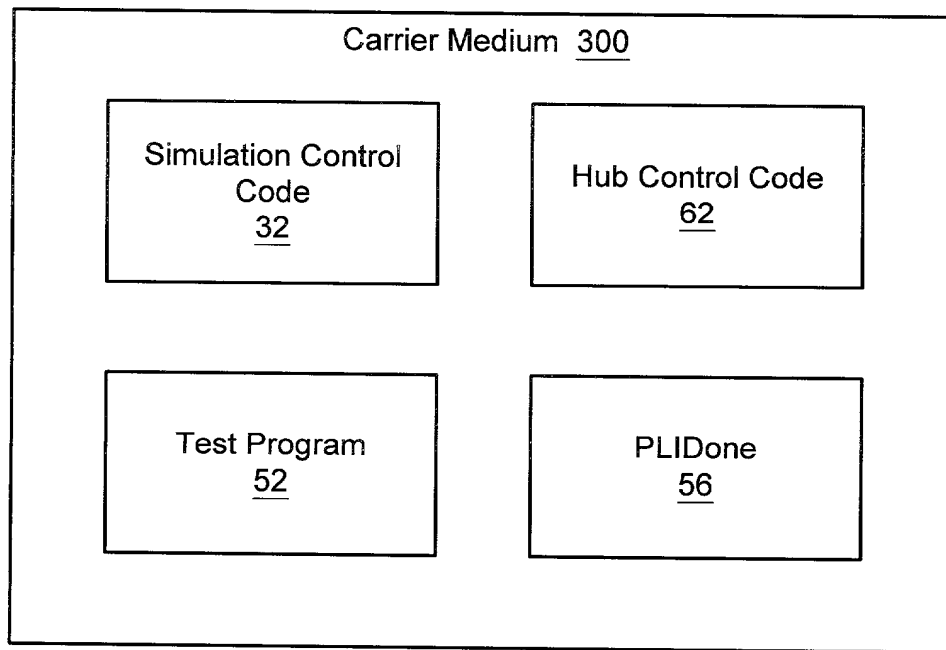


Fig. 26